

# **CHAPTER I**

## **INTRODUCTION**

### **1.1 Background of the Study**

The development of science and technology is progressing very rapidly. It has a broad impact in all aspects of human life, especially in the aspect of information. This reality is characterized by increased information flows easily through various means of communication between individuals and groups.

The condition of their own impact documentation centers and information services such as the library, which is the type of information available, the better the quality and quantity when most of the information is stored either in the form of text or document in a computer-based data collection. Thus the type and amount of information that very much can be reached easily by the user in tracing the information needed, and therefore required a search aids.

According to Rada (1987) quoted by Lalu Anwar (2000) people who are dealing with documents in large numbers, are not easy to find documents which are needed. In the documentation and information centers are still using conventional media, in the information retrieval process, a user using two alternative search the card catalog through the ranks as a reference to the arrangement of the collection on the shelves, and in the ranks or directly browse the collection. While the documentation centers and information that

has been using a computerized system, in order to support information retrieval (information retrieval system) uses another approach, one of them is a thesaurus.

According to Hornby quoted by Sri Rohyanti Z. (2002: 1): Thesaurus is a dictionary of words and phrases that collected according to common meanings and synonyms. In the world of libraries, documentation and information, a thesaurus can be interpreted according to its structure and function. Thesaurus useful in terms of the query input, so we have a lot of choice words that can be used in the determination of the subject. So with the use of a thesaurus expected the librarians simplified and minimize the deadlock in the determination of query the online catalog.

In order to facilitate the user to access information about synonyms, hiponim, as well as other related words from anywhere and whenever necessary to develop an online form of interactive web applications that can facilitate all of the public in finding information in Indonesian thesaurus. This interactive web application is designed using PHP and MySQL as the database. User interface using HTML, CSS, and jQuery, so it is easy to understand. Then hosted on a server which is can later be accessed with any web browser.

In the interactive web applications, there are two levels, namely admin and user (student, teacher, public agencies, and public). Admin charged for opening and closing interactive web applications thesaurus Indonesian administration, adding database vocabulary (thesaurus). While

users only have the right to access information about Indonesian thesaurus is displayed on this interactive web.

## **1.2 Problem Statement**

The formulation of the problem based on the background is "How to design an interactive web application for administering Indonesian thesaurus?"

## **1.3 Limitations of the Study**

Limitations is used to avoid the problem of irregularities or widening of the main problems that research more focused and facilitate the discussion so that the purpose of the research will be achieved. Some limitations issues in this study are as follows:

- 1) Applications are made contains a thesaurus Indonesian administration concentrated on: dictionary, glossary, proverb, abbreviations, synonyms, hiponim, and synset.
- 2) The web based application that can be accessed via a web browser
- 3) The content of this application include:
  - a. Search field (which consists of the search options: dictionary, glossary, proverb, abbreviations, synonyms, hiponim, and synset)
  - b. The random word

- c. Word search results (based option: dictionary, glossary, proverb, abbreviations, synonyms, hiponim, and synset)
- 4) Using MySQL to processing the database of Indonesian word
- 5) Using CSS and JQuery to make an interactive web page

#### **1.4 Objective of the Study**

The purpose of this research is to create interactive web application for web-based Indonesian thesaurus that can facilitate users in finding the required information in detail and specific.

#### **1.5 Benefits of the Study**

The benefits derived from this study are:

- 1) For the users

This interactive web application can help users to find words that users want, the way users enter keywords into the search field and then select a sub menu (dictionary, glossary, proverb, abbreviations, synonyms, hiponim, and or synset) that then the application will process the words that users enter by providing complete and detailed information. In short, it is helping the users to find the information needed documents.

## 2) For researcher

This interactive web application can provide benefits to the researcher to be able to implement the knowledge she has learned in the lectures, especially on PHP and MySQL.

## 1.6 Writing Organization

Organization writing thesis contains a description from contents of the thesis outline are:

### CHAPTER I INTRODUCTION

Introduction chapter describe background of the study, problem statement, limitation of the study, objective of the study, and writing organization.

### CHAPTER II BIBLIOGRAPHICAL REVIEWS

Chapter II contains previous work that used in research, design, and manufacturing system.

### CHAPTER III RESEARCH METHOD

Chapter III Analysis point of research object, all problem, and system design in general or specific.

### CHAPTER IV RESULTS AND DISCUSSION

Chapter IV exposing discuss of the stage research result, starting from design, analysis, testing, and implementation result.

## CHAPTER V CONCLUSION

Chapter V describe the conclusion of research and suggestion for considering in the future research.